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[Marker Primary Antibody]

Rabbit Anti-Phospho-SRF (Ser77) /HRP Conjugated antibody

Catalog Number: SL9602R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Phospho-SRF (Ser77) /HRP
Immunogen:	KLH conjugated Synthesised phosphopeptide derived from human SRF around the phosphorylation site of Ser77
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Dog,Pig,Cow)
Background:	background: This gene encodes a ubiquitous nuclear protein that stimulates both cell proliferation and differentiation. It is a member of the MADS (MCM1, Agamous, Deficiens, and SRF) box superfamily of transcription factors. This protein binds to the serum response element (SRE) in the promoter region of target genes. This protein regulates the activity of many immediate-early genes, for example c-fos, and thereby participates in cell cycle regulation, apoptosis, cell growth, and cell differentiation. This gene is the downstream target of many pathways; for example, the mitogen-activated protein kinase pathway (MAPK) that acts through the ternary complex factors (TCFs). [provided by RefSeq, Jul 2008]. **Function:** SRF is a transcription factor that binds to the serum response element (SRE), a short sequence of dyad symmetry located 300 bp to the 5' of the site of transcription initiation of some genes (such as FOS). Required for

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	cardiac differentiation and maturation. **Subunit:** Binds DNA as a multimer, probably a dimer. Interacts with MLLT7/FOXO4, NKX3A and SSRP1. Interacts with ARID2 and SRFBP1. Forms complexes with ARID2, MYOCD, NKX2-5 and SRFBP1. Forms a nuclear ternary complex with MKL1 and SCAI. **Subcellular Location:** Nucleus. **Post-translational modifications:** Phosphorylated by PRKDC. **Similarity:** Contains 1 MADS-box domain. **Database links:** **Entrez Gene:** 6722 Human **Entrez Gene:** 20807 Mouse **Entrez Gene:** 501099 Rat Omim: 600589 Human **SwissProt:** P11831 Human **SwissProt:** Q9JM73 Mouse **Unigene:** 520140 Human **Unigene:** 45044 Mouse Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Serum response factor (SRF) is a transcription factor protein that binds to the serum response element (SRE) in promoter DNA sequences and regulates the expression of a series of genes, including immediate early genes such as c-fos, fosB, junB, egr-1, and egr-2, as well as neuronal genes such as nurr1 and muscle genes such as actin and myosin genes.